

Appl. No. 10/711,192
Amdt. dated June 21,2006
Reply to Office action of May 12, 2006

REMARKS/ARGUMENTS

1. Objection to the drawings.

The drawings are objected to because they include the following reference characters not mentioned in the description: Element numbers 234 and 244 as shown in Fig. 2 are 5 not described in the specification.

Response:

Paragraph 14 of the specification has been amended to describe the outputs 234 and 244 illustrated in Figure 2. No new matter has been added, and acceptance of the 10 amended specification is respectfully requested.

2. Claims 1-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ehlers (US 2003/0206180; hereinafter referred to as Ehlers) in view of MacInnis et al (US 6,573,905; hereinafter referred to as MacInnis).

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Response:

Independent claims 1 and 8 have been amended to overcome these claim rejections. Claim 1 has been amended to contain the limitations previously found in original claim 2. Claim 1 now specifies that the first switching module, the video transforming module, the first switching module, and the graphics transforming module are all connected to the mixing module for providing video signals and 20 graphics signals to the mixing module in either the YUV format or the RGB format. In addition, claim 1 also recites that an output interface is directly connected to the mixing module for receiving the output of the mixing module. This 25 amendment is fully supported in Fig. 2 and in paragraph 14 of the instant application. No new matter is added.

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The benefit of the present invention is that transformations between the RGB and YUV color formats is kept to a minimum. If the BIOS determines that the output interface requires the YUV format, graphics signals in the RGB format are first transformed to the YUV format and are then mixed with video signals in the YUV format in the mixing module before being output directly to the output interface from the mixing module. In contrast, if the BIOS determines that the output interface requires the RGB format, graphics signals in the YUV format are first transformed to the RGB format and are then mixed with video signals in the RGB format in the mixing module before being output directly to the output interface from the mixing module.

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Ehlers teaches in paragraph [0038] that the final image is output after blending the various video sources together. Ehlers goes on to state, "If the image will be recorded on tape or live broadcast that requires YCbCr, nothing is done. If the image is going to be sent to a computer monitor that requires RGB, then a color space conversion is performed either prior to or as the data is sent to the computer monitor." Therefore, Ehlers does not teach that a BIOS selects signals to be input to the mixing module according to the format of the output interface, and that the output interface is directly connected to the mixing module for receiving the output of the mixing module. Instead, Ehlers teaches that an additional conversion step is needed after the blending process if the final image is required to be in RGB format.

25 For the reasons described above, the combination of Ehlers and MacInnis fails to teach all of the limitations contained in claim 1, and claim 1 should be allowable over the cited prior art. Claims 4-7 are dependent on claim 1, and should be allowed if claim 1 is allowed. Reconsideration of claims 1 and 4-7 is respectfully requested.

Regarding claim 8, claim 8 has been amended to include the limitation of "outputting the mixed signal directly to the output interface". Ehlers does not

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teach detecting that the output interface receives an RGB signal, transforming the YUV video signal into an RGB video signal, mixing the RGB video signal and the RGB graphics signal to generate the RGB signal, and, outputting the mixed signal directly to the output interface. Instead, Ehlers teaches that an additional conversion step is needed after the blending process if the final image is required to be in RGB format. Therefore, the prior art does not teach all of the limitations contained in the currently amended claim 8, and reconsideration of claim 8 is respectfully requested.

5 Applicant respectfully requests that a timely Notice of Allowance be issued in this case.

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Sincerely yours,

Winston Hsu

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